

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 27, 1969

Operator El Paso Natural Gas		Lease Woodriver No. 3	
Location 1660'N; 1175'W; S-5; T-30N; R-9W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3153	Tubing: Diameter No tubing	Set At: Feet ----
Pay Zone: From 3060	To 3092	Total Depth: 3175	Shut In 6-12-69
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 893	+ 12 = PSIA 905	Days Shut-In 15	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA ----	
Flowing Pressure: P PSIG 149	+ 12 = PSIA 161		Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 166	
Temperature: T = 64 °F	F _t = .9962	n = 0.85	F _{pv} (From Tables) 1.018	Gravity .670	F _g = .9463

$$\text{CHOKE VOLUME} = Q = C \times P_t \times F_t \times F_g \times F_{pv}$$

$$Q = 12.365 \times 161 \times .9962 \times .9463 \times 1.018 = \underline{1910} \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{819,025}{791,469} \right)^n = (1.0348)^{.85} (1910) = 1.0295 (1910)$$

Note: Blew dry gas for entire test.

$$Aof = \underline{1966} \text{ MCF/D}$$

TESTED BY RH & CRW
 Calculated
 WITNESSED BY RES

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